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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|----------------------------------|-------------|----------------------|-------------------------|------------------|
| 09/681,601 | 05/04/2001 | Wade J. Alexander | BIR170/00997 | 8610 |
| 7590 10/04/2004 | | • . | EXAMINER | |
| Gable & Gotw 100 West Fifth S | | | ELVE, MARIA ALEXANDRA | |
| 10th Floor | | | ART UNIT | PAPER NUMBER |
| Tulsa, OK 741 | 103 | | 1725 | |
| | | | DATE MAILED: 10/04/2004 | i. |

Please find below and/or attached an Office communication concerning this application or proceeding.

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| | Application No. | Applicant(s) |
| Office Action Summary | 09/681,601 | ALEXANDER, WADE J. |
| Onice Action Summary | Examiner | Art Unit |
| The MAII INC DATE of this communication con | M. Alexandra Elve | 1725 |
| The MAILING DATE of this communication app Period for Reply | pears on the cover sheet with th | e correspondence address |
| A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a reply by within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS for cause the application to become ABANDO | e timely filed days will be considered timely. rom the mailing date of this communication. DNED (35 U.S.C. § 133). |
| Status | | |
| Responsive to communication(s) filed on This action is FINAL . 2b)⊠ This Since this application is in condition for alloware closed in accordance with the practice under E | action is non-final. nce except for formal matters, | • |
| Disposition of Claims | | |
| 4) Claim(s) 1 and 2 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 2 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or | wn from consideration. | |
| Application Papers | | |
| 9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on <u>04 May 2001</u> is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex | ☑ accepted or b)☐ objected drawing(s) be held in abeyance. iion is required if the drawing(s) is | See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d). |
| Priority under 35 U.S.C. § 119 | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list | s have been received. s have been received in Applic rity documents have been rece u (PCT Rule 17.2(a)). | cation No eived in this National Stage |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 8/2/01. | 4) Interview Summ Paper No(s)/Mai 5) Notice of Inform 6) Other: | |

Application/Control Number: 09/681,601

Art Unit: 1725

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Budininkas et al. (US Pat. 4,656,831) in view of Miramontes (US Pat. 3,808,805).

Budininkas et al. discloses engine exhaust gas, which passes through a catalytic reactor and then through a precooler and condenser in order to extract water. The catalytic converter completely oxidizes the hydrocarbons present in the exhaust.

Treated exhaust gas is cooled to 120-150 F and then further air conditioned to 65-75 F whereupon condensation occurs, that is the dew point is reached. (abstract, col. 2, lines 5-31, col. 3, lines 15-44) Budininkas et al. discloses diversion of the exhaust gas stream, but not the use of the gas.

Miramontes discloses the conversion of exhaust gases into harmless products. The exhaust gases are directed through a refrigerating system to cool the gases to below 100 C and then through a compressor in order to condense the water. The condensed water is removed and the waste gases (processed exhaust gas) are recycled to the engine's cylinders. (abstract, col. 2, lines 5-15)

It would have been obvious to one of ordinary skill in the art at the time of the invention to recycle the processed exhaust gas because of the enhanced efficiency.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See US PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Alexandra Elve whose telephone number is 571-272-1173. The examiner can normally be reached on 6:30-3:00 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 30, 2004.

M. ALEXANDRA ELVE PRIMARY EXAMINER